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### AMENDMENTS TO THE CLAIMS

1. (currently amended) A multi-layer polymer composition comprising

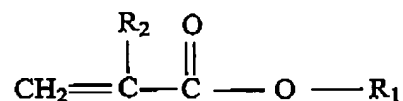
- (1) a first outer layer,
- (2) a second outer layer and
- (3) an adhesive tie layer between the two outer layers,

wherein the first outer layer comprises a polar polymer, the second outer layer comprises a non-polar polymer, and the adhesive tie layer comprises

a) a copolyester elastomer that is totally or partially miscible with the polar polymer, (b) a non-polar polymer that is totally or partially miscible with the non-polar polymer in the second outer layer and (c) a copolymer that contains functional groups capable of reaction with the functional end groups of component (a) and that is totally or partially miscible with the non-polar polymer in the second outer layer.

2. (currently amended) The multi-layer polymer composition of claim 1 wherein component (c) of the adhesive tie layer comprises an ethylene copolymer of the formula E/X/Y, wherein E is the radical formed from ethylene and comprises about 40-90 weight % of the ethylene copolymer,

X is the radical formed from



wherein R<sub>1</sub> is an alkyl group with 1-8 carbon atoms,

R<sub>2</sub> is selected from the group consisting of H, CH<sub>3</sub>, ~~or~~ and C<sub>2</sub>H<sub>5</sub>, and X comprises about 0-40 weight percent of the ethylene copolymer and

Y is selected from the group consisting of glycidyl methacrylate and glycidyl acrylate, and Y comprises 0.1-20 weight percent of the ethylene copolymer.

3. (currently amended) The multi-layer polymer composition of claim 1 wherein component (c) of the adhesive tie layer comprises an ethylene copolymer of the formula E/X/Y, wherein

E is the radical formed from ethylene and comprises about 40-90 weight % of the ethylene copolymer,

X is vinyl acetate and X comprises about 0-40 weight percent of the ethylene copolymer, and

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Y is selected from the group consisting of glycidyl methacrylate and glycidyl acrylate, and Y comprises 0.1-20 weight percent of the ethylene copolymer.

4. (currently amended) The multi-layer polymer composition of claim 1 wherein the adhesive tie layer comprises about 25-65% by weight component (a), ~~about 0-~~ up to 65% by weight component (b) and about 10-50% by weight component (c), wherein all percentages are based on the total weight of the adhesive tie layer.
5. (currently amended) The multi-layer polymer composition of claim 1 wherein the adhesive tie layer comprises about 25-65% component (a), about 25-65% by weight component (b) and about 10-50% by weight component (c), wherein all percentages are based on the total weight of the adhesive tie layer.
6. (currently amended) The multi-layer polymer composition of claim 1 wherein the first outer layer comprises a polar polymer selected from the group consisting of: polyvinylchloride homopolymer and copolymers, acrylonitrile-butadiene-styrene (ABS), polyvinylidene dichloride (PVDC), poly(ethylene terephthalate) (PET) homopolymer or copolymers, polyamides, polycarbonate, ethylene vinyl alcohol homopolymer and copolymers, acid copolymers, ionomers, liquid crystalline polymers, polyacetals, acetal copolymers, and polylactic acid.
7. (currently amended) The multi-layer polymer composition of claim 1 wherein the second outer layer comprises a non-polar polymer selected from the group consisting of: polypropylene homopolymer and copolymers, and polyethylene homopolymer and copolymers.
8. (currently amended) The multi-layer polymer composition ~~article~~ of claim 1 wherein the copolyester elastomer comprises a segmented thermoplastic ether-ester elastomer [[.]] exhibiting a shore D hardness of about 55 or less and further wherein the having soft segments comprising ~~comprise~~ polytetramethylene glycol (PTMEG) ~~and the shore D hardness of the elastomer is about 55 or less.~~
9. (currently amended) The multi-layer polymer composition of claim ~~1~~ 2 wherein the E/X/Y copolymer is selected from the group consisting of copolymers of: ethylene-n-butyl acrylate-glycidyl methacrylate (EnBAGMA), ethylene - butyl acrylate - glycidyl methacrylate (EBAGMA), ethylene-glycidyl methacrylate (EGMA), ethylene-methyl acrylate-glycidyl methacrylate (EMAGMA), ethylene -ethyl acrylate-glycidyl methacrylate (EEAGMA), ethylene - propyl acrylate - glycidyl methacrylate (EPAGMA), and ethylene - vinyl acetate - glycidyl methacrylate (EVAGMA).

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10. (currently amended) The multi-layer polymer composition of claim 1 wherein the first outer layer comprises PVC and the second outer layer comprises polypropylene homopolymer.

11. (currently amended) The multi-layer polymer composition of claim 10 ~~wherein~~ having an the adhesive tie layer that comprises about 25-65% by weight of a copolyester elastomer comprising a segmented thermoplastic ether-ester elastomer having soft segments comprising polytetramethylene glycol (PTMEG) and a shore D hardness of about 55 or less, about 10-50% by weight polypropylene, and about 25-65% by weight EnBAGMA, wherein all weight percentages are based on the total weight of the adhesive tie layer.

12. (currently amended) The multi-layer polymer composition of claim 11 wherein the multi-layer polymer demonstrates a peel strength as tested using ASTM # D903-98 greater than about 5 ~~psi~~ lbs/in width (0.09 kg/mm width).

13. (currently amended) Exterior siding for buildings comprising the multi-layer polymer composition of claim 11.

14. (original) The exterior siding of claim 13 wherein the first outer layer of PVC comprises the exterior surface of the siding.

15. (currently amended) An article comprising the multi-layer polymer composition of claim 11 wherein the article is selected from the group consisting of: construction materials, automobile interior parts, and toys.

16. (currently amended) The multi-layer polymer composition of claim 11 wherein the polymer ~~was~~ is made by a process selected from the group consisting of: coextrusion and lamination.

17. (currently amended) The multi-layer polymer composition of claim 1 wherein component (c) comprises an acid copolymer or anhydride derived from an acid copolymer.

18. (currently amended) The multi-layer polymer composition of claim ~~17~~ 1 wherein component (c) comprises maleic-anhydride-grafted polypropylene.

19. (withdrawn) A process for making a multi-layer polymer comprising the step of coextruding the following layers to form a multi-layer polymer:

(1) a first outer layer,

(2) a second outer layer and

(3) an adhesive tie layer between the two outer layers,

wherein the first outer layer comprises a polar polymer, the second outer layer comprises a non-polar polymer, and the adhesive tie layer comprises

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- (a) a copolyester elastomer that is totally or partially miscible with the polar polymer, (b) a non-polar polymer that is totally or partially miscible with the non-polar polymer in the second outer layer and (c) a copolymer that contains functional groups capable of reaction with the functional end groups of component (a) and that is totally or partially miscible with the non-polar polymer in the second outer layer.
20. (withdrawn) The process of claim 19 wherein the first outer layer comprises PVC, the second outer layer comprises polypropylene homopolymer, and the adhesive tie layer comprises about 25-65% by weight of a copolyester elastomer comprising a segmented thermoplastic ether-ester elastomer having soft segments comprising polytetramethylene glycol (PTMEG) and a shore D hardness of about 55 or less, about 10-50% by weight polypropylene, and about 25-65% by weight EnBAGMA, wherein all weight percentages are based on the total weight of the adhesive tie layer.
21. (withdrawn) A process for making a multi-layer polymer comprising the step of laminating:
- (1) a first outer layer,
  - (2) a second outer layer and
  - (3) an adhesive tie layer between the two outer layers,
- under sufficient heat and pressure to fuse the layers and form a multi-layer polymer, wherein the first outer layer comprises a polar polymer, the second outer layer comprises a non-polar polymer, and the adhesive tie layer comprises
- (a) a copolyester elastomer that is totally or partially miscible with the polar polymer, (b) a non-polar polymer that is totally or partially miscible with the non-polar polymer in the second outer layer and (c) a copolymer that contains functional groups capable of reaction with the functional end groups of component (a) and that is totally or partially miscible with the non-polar polymer in the second outer layer.
22. (withdrawn) The process of claim 21 wherein the first outer layer comprises PVC, the second outer layer comprises polypropylene homopolymer, and the adhesive tie layer comprises about 25-65% by weight of a copolyester elastomer comprising a segmented thermoplastic ether-ester elastomer having soft segments comprising polytetramethylene glycol (PTMEG) and a shore D hardness of about 55 or less, about 10-50% by weight polypropylene, and about 25-65% by weight EnBAGMA, wherein all weight percentages are based on the total weight of the adhesive tie layer.

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23. (New) A multi-layer polymer composition of Claim 1 wherein an adhesive tie layer between the two outer layers contacts the first outer layer and the second outer layer.